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IN THE UNITED STATES PATENT & TRADEMARK OFFICE

In re the Application of:

Cantrell et al.

Application No.: 10/530,446

Filed: April 5, 2005

Atty. File No.: 1585 WO/US

Title: Process For The Preparation of  
Quaternary N-alkyl Morphinan  
Alkaloid Salts

) Group Art Unit: 1625

) Examiner: Not yet assigned

CERTIFICATE OF TRANSMISSION

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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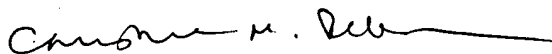
Dear Sir:

In accordance with duties imposed by 37 CFR §1.56 and means for complying therewith according to 37 CFR §§1.97-1.98, the references listed on the attached Form PTO/SB/08A are called to the attention of the US Patent & Trademark Office in relation to the present application.

No representation is made that the cited references are the only art or that the cited references represents the best art. The Examiner is urged to consider all of the cited references and to make an independent evaluation of the teachings and materiality of each.

Since this correspondence is being submitted prior to a first Office Action on the merits, it is believed that no fee is due. However, if a fee is required for entry of this correspondence, please charge Deposit Account No. 13-1160.

Respectfully submitted,



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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/530,446
				Filing Date	April 5, 2005
				First Named Inventor	Gary L. CANTRELL
				Art Unit	1625
				Examiner Name	Not yet assigned
Sheet	2	of	2	Attorney Docket Number	1585 WO/US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of The item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	27	MUSICH et al., Reaction of O-methyl-N, N <sup>1</sup> -Diisopropylisourea with Amino Acids and Amines, Journal of Organic Chemistry (1977), 42(1), pp. 139-141	
	28	GIGER et al., Synthesis and Reactions of the diels-Alder Adduct of Thebaine with 4-phenyl-1,2,4-triazoline-3,5-dione, Tetrahedron (1973), 29(16), pp. 2387-2391	
	29	KOCZKA et al., Selective Quaternization of Compounds with Morphine Skeleton, Acta. Chim. Acad. Sci. Hung. (1967), 51(4), pp. 393-402	
	30	SEKI, Isao, Studies on the Morphine Alkaloids and its Related Compounds. XIV. Preparation of 6-Amino-hydrophenanthrene Compounds from Hofmann Degradation Products of the Morphine Alkaloids, Chemical & Pharmaceutical Bulletin (1966), 14(5), pp. 453-461	
	31	FRY et al., Mannich Derivatives of Analgesic Agents, Journal of Organic Chemistry (1959), 24, pp. 116-117	
	32	BENTLEY et al., The Reduction of Thebaine and Dihydrothebaine by Sodium and Ammonia, Journal of the Chemical Society, Abstracts (1952), pp. 958-966	
	33	SCHULTZ et al., Thebaine Cyclopropanation, Russian Journal of Organic chemistry (Translation of Zhurnal Organicheskoi Khimii) (2003), 39(8), pp. 1083-1088	
	34	OTTO et al., Selection and Amplification of Hosts from Dynamic combinatorial Libraries of Macrocyclic Disulfides, Science (Washington, DC, United States) (2002), 297(5581), pp. 590-593 & Supporting Online Material	
	35	LOPEZ et al., Photoxidation of Thebaine. A Route to 14-Hydroxymorphinones and Hydrodibenzofuran Analogs of Methadone, Tetrahedron Letters (1994), 35(31), pp. 5727-5730	
	36	MANOHARAN et al., Stereoselectivity in Quaternization of Thebaine: 270 MHz PMR Spectroscopic Studies, Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal chemistry (1987), 26B(2), pp. 140-142	
	37	SHULTS et al., Transformations of Quaternary Tetrahydrothebaine Sulfones, Zh. Org. Khim. (1993), 29(6), pp. 1149-1162, (English pages 953-963)	
	38	FUNKE et al., A <sup>1</sup> H and <sup>13</sup> C Nuclear Magnetic Resonance Study of Three Quaternary Salts of Naloxone and Oxymorphone, J. Chem. Soc. Perkin Trans. (1986) 2, pp. 735-738	
	39	LOPEZ et al., The [4+2] Addition of Singlet Oxygen to Thebaine: New Access to Highly Functionalized Morphine Derivatives via Opioid Endoperoxides, J. Org. Chem. (2000), 65(15), pp. 4671-4678	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

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